



217/782-0610

LTV Steel Company
LTV Steel Company Chicago Works
NPDES Permit No. IL0002593
Final Permit

February 11, 1991

LTV Steel Company
P.O. Box 6778
Cleveland, Ohio 44101

EPA Region 5 Records Ctr.



307713

Gentlemen:

Attached is the final NPDES Permit for your discharge. The Permit as issued covers discharge limitations, monitoring, and reporting requirements. The failure of you to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Permit as issued is effective as of the date indicated on the first page of the Permit. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board within a 30 day period following the issuance date.

Should you have questions concerning the Permit, please contact Candy Morin at the telephone number indicated above.

Very truly yours,

Thomas G. McSwiggin, P.E.
Manager, Permit Section
Division of Water Pollution Control

TGM:CM:sf/303q,68

Attachment: Final Permit

cc: USEPA 5WQP/With Enclosure
Region/With Enclosure (2)
Records Unit
Compliance Assurance Section/with enclosure
NIPC
Facility

NPDES Permit No. IL0002593

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

P.O. Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date: November 1, 1995

Issue Date: February 11, 1991

Effective Date: March 13, 1991

Name and Address of Permittee:

LTV Steel Company
P.O. Box 6778
Cleveland, Ohio 44101

Facility Name and Address:

LTV Steel Company
Chicago Works
11600 South Burley Avenue
Chicago, Illinois 60617
Cook County

Discharge Number and Name:

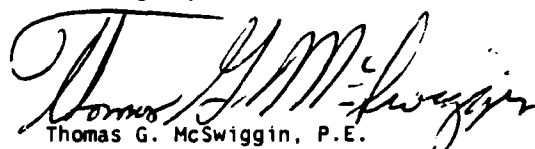
004 Noncontact Cooling Water, Stormwater,
and Groundwater

Receiving Waters

Calumet River

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C and/or Subtitle D Rules and Regulations of the Illinois Pollution Control Board, and the Clean Water Act, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.


Thomas G. McSwiggin, P.E.
Manager, Permit Section
Division of Water Pollution Control

TGM:TRK:CRM:sf/sp/3343k

NPDES Permit No. IL0002593

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS		CONCENTRATION		SAMPLE FREQUENCY	SAMPLE TYPE
	lbs/day		LIMITS mg/l			
	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.		
1. From the effective date of this permit until November 1, 1995, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:						
Outfall: 004 Noncontact Cooling Water, Stormwater & Groundwater						
Flow			Report	Report	1/Week	Single Reading
pH	See Special Condition 1*				1/Week	Grab
Temperature	See Special Conditions 2 and 3				1/Day	Grab
NH ₃ -N			Report	Report	1/Week	24 Hour Composite
Total Phenols			Report	Report	1/Week	Grab

*The Permittee shall report a minimum and a maximum on the DMR.

Special Conditions

Special Condition 1. The pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

Special Condition 2. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Section 302.211, Illinois Administration Code, Title 35, Chapter 1, Subtitle C, as amended:

- A. Maximum temperature rise above natural temperature must not exceed 5°F (2.8°C).
- B. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 3°F (1.7°C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
°F	60	60	60	90	90	90	90	90	90	90	90	60
°C	16	16	16	32	32	32	32	32	32	32	32	16

- C. The monthly maximum value shall be reported on the DMR form.

Special Condition 3. In order to demonstrate compliance with Section 302.211 the permittee shall measure the temperature of the Calumet River intake water, the Outfall 004 discharge, and the instream temperature of the Calumet River upstream and downstream of the discharge once each day, five days per week for a minimum of twelve months. Flow data from the O'Brien Locks shall be obtained for each day that temperature data is collected.

The temperature and flow data collected pursuant to this special condition shall be reported with the DMR form. The submittal of the initial DMR form shall include an attached detailed map of the pertinent reach of the Calumet River showing the locations of the intake, the outfall, and the instream monitoring points. The Agency will notify the permittee if changes of the points are required.

This permit may be reopened to specify a compliance monitoring point for temperature, a discharge temperature limit, or to require additional data collection needed to demonstrate compliance, following public notice and opportunity for hearing.

Special Condition 4. Outfalls 003 and 005, which the permit application and the Permittee's letter of November 13, 1989, state are inactive, shall be capped to prevent any discharge subject to verification by IEPA personnel.

Special Condition 5. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

Special Condition 6. The permittee shall record monitoring results on Discharge Monitoring Report forms using one such form for each discharge each month. The completed Discharge Monitoring Report form shall be submitted monthly to IEPA, no later than the 15th of the following month, unless otherwise specified by the Agency, to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
2200 Churchill Road
P.O. Box 19276
Springfield, Illinois 62794-9276

Special Condition 7.

- A. Within the first twelve months of the effective date of this permit, the Permittee shall monitor and analyze the discharge from Outfall 004 during a minimum of one storm event.

All samples shall be collected from a discharge resulting from the first storm event after a minimum period of 96 hours without a measurable (greater than 0.1 inch rainfall) storm event.

Special Conditions

A grab sample shall be taken during the first hour or less of the discharge, with one additional grab sample up to a minimum of four taken in each succeeding hour of discharge for storm events lasting four or more hours. One analysis shall be run on the initial grab sample; the remaining grab samples shall be composited and one analysis shall be run.

Analysis shall be performed for the following parameters: oil and grease, BOD₅, COD, TSS, TDS, TOC, pH, ammonia-N, total phenols, iron (dissolved), cyanide; and any additional parameters which the permittee knows or believes may be present in the discharge. Flow shall be measured.

8. The results of the analysis shall be submitted to the Agency at the following address within 15 days of their receipt from the analytical laboratory. After review of these results the Agency may modify this permit to include additional monitoring requirements or effluent limitations. Include a topographic map of the site which identifies the drainage areas served by Outfall 004 including buildings, paved areas, storage areas, and any other areas which may contribute to stormwater contamination.

Illinois Environmental Protection Agency
Division of Water Pollution Control
Permit Section, Industrial Unit
2200 Churchill Road, P.O. Box 19276
Springfield, Illinois 62794-9276

Special Condition 8. This permit may be modified to include different final effluent limitations or requirements which are consistent with applicable laws, regulations, or judicial orders. The Agency will public notice the permit modification.